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APPLICATION NO	).	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/618,341		07/10/2003	William Chuang	T-1241	5243	
802	7590	10/14/2005		EXAM	EXAMINER	
DELLETT AND WALTERS P. O. BOX 2786				KRAUSE, JUST	KRAUSE, JUSTIN MITCHELL	
		97208-2786		ART UNIT	PAPER NUMBER	
				3682		

DATE MAILED: 10/14/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)					
Office Action Symmous	10/618,341	CHUANG, WILLIAM					
Office Action Summary	Examiner	Art Unit	•				
	Justin Krause	3682					
The MAILING DATE of this communication Period for Reply	on appears on the cover sheet	with the correspondence address -					
A SHORTENED STATUTORY PERIOD FOR F WHICHEVER IS LONGER, FROM THE MAILIN  - Extensions of time may be available under the provisions of 37 C after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory Failure to reply within the set or extended period for reply will, by Any reply received by the Office later than three months after the earned patent term adjustment. See 37 CFR 1.704(b).	NG DATE OF THIS COMMULE CFR 1.136(a). In no event, however, may ion. period will apply and will expire SIX (6) No extatute, cause the application to become	NICATION.  y a reply be timely filed  MONTHS from the mailing date of this communication.  BABANDONED (35 U.S.C. § 133).					
Status							
1) Responsive to communication(s) filed on	10 July 2003.	•					
· <u></u>	This action is non-final.						
3) Since this application is in condition for a		atters, prosecution as to the merits is					
closed in accordance with the practice ur	•	• •					
Disposition of Claims	, , , , , , , , , , , , , , , , , , , ,						
· _							
4) Claim(s) 1 is/are pending in the application							
· · · · · · · · · · · · · · · · · · ·	4a) Of the above claim(s) is/are withdrawn from consideration.						
· _ · · · - · · · · · · · · · · · · · ·	Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1</u> is/are rejected. 7)□ Claim(s) is/are objected to.		•					
8) Claim(s) are subject to restriction a	and/or election requirement.						
Application Papers							
9) The specification is objected to by the Exa	aminer.						
10)⊠ The drawing(s) filed on 10 July 2003 is/are: a)⊠ accepted or b) objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11)☐ The oath or declaration is objected to by t	he Examiner. Note the attach	ned Office Action or form PTO-152.					
Priority under 35 U.S.C. § 119							
12) Acknowledgment is made of a claim for for a) All b) Some * c) None of:	oreign priority under 35 U.S.C	C. § 119(a)-(d) or (f).					
3. Copies of the certified copies of the							
application from the International B	•						
	* See the attached detailed Office action for a list of the certified copies not received.						
	,						
Attachment(s)	_						
1) Notice of References Cited (PTO-892)  4) Interview Summary (PTO-413)  Paper No(s)/Mail Date							
3) Information Disclosure Statement(s) (PTO-1449 or PTO/5	SB/08) 5) 🔛 Notice (	of Informal Patent Application (PTO-152)					
Paper No(s)/Mail Date 6) Other:							

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## **DETAILED ACTION**

## Information Disclosure Statement

1. No information disclosure statement was submitted.

## **Drawings**

2. The drawings filed July 10, 2003 have been reviewed and are accepted as formal.

## Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claim 1 is rejected under 35 U.S.C. 103(a) as being unpatentable over Torrey (US Patent 221,879) in view of Disbro (US Patent 2,230,744).

Torrey shows a pulley having a metal hub creating a bearing surface (b) and a metal rim (a) surrounding a ring (c), which is made from wood. The wooden ring has a groove on the outer periphery, the metal rim is cast around the wooden ring having a second groove which is aligned with the groove of the wooden ring.

Torrey does not show plastic as a material for the ring under the metal rim or a rolling element bearing as a rotation element.

Disbro teaches a pulley having a rolling element bearing (17) with an inner portion (18) rotatably received inside the outer portion (16). A plastic ring (21) is

mounted to the outer portion of the bearing. A metal ring (11) is positioned on the outer periphery of the plastic ring.

It would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the device of Torrey by adding a rolling element bearing to a pulley, as taught by Disbro. The motivation would have been reduced friction by using a rolling element bearing versus a bearing surface.

It would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the device of Torrey by using plastic as taught by Disbro in place of wood. The motivation would have been to relieve impact shock and reduce noise and vibration, as well as ease of fabrication.

#### Conclusion

5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

410,986 shows a pulley with a detachable rim.

191,981 shows a pulley with composite construction.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Justin Krause whose telephone number is 571-272-3012. The examiner can normally be reached on Monday - Friday, 7:30-5:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Richard Ridley can be reached on 571-272-6917. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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JMK

RICHARD W. RIDLEY
-PRIMARY-EXAMINER

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